Class XII

Computer Science (083)

Marking Scheme

Time Allowed: 3 hours MM: 70

Ques No	Question and Answers	Distribution of Marks	Total Marks
	SECTION A		
1	True	1 mark for	1
		correct	
		answer	
2	Option d	1 mark for	1
		correct	
	delete	answer	
3	Option b	1 mark for	1
		correct	
	18	answer	
4	Option d	1 mark for	1
	('BHASA', ' ', 'SANGAM@75')	correct	
		answer	
5	Option b	1 mark for	1
	15,50	correct	
	15,50	answer	
6	Option a	1 mark for	1
	PAN	correct	
		answer	
7	Option a	1 mark for	1
		correct	
	r g b	answer	
8	Option b	1 mark for	1
	2@tr	correct	
		answer	

9	Option b	1 mark for	1
		correct	
	Statement 4	answer	
10	Option b	1 mark for	1
		correct	
	Wait#Stop#	answer	
11	Option b	1 mark for	1
		correct	
	SMTP	answer	
12	Option a	1 mark for	1
		correct	
	21	answer	
	7		
13	True	1 mark for	1
		correct	
		answer	
14	Option b	1 mark for	1
		correct	
	It is case sensitive	answer	
15	Packet	1 mark for	1
		correct	
		answer	
16	Option c	1 mark for	1
		correct	
	seek()	answer	
17	Option a	1 mark for	1
	Both A and R are true but R is the correct explanation for A	correct	
	1	answer	

18	Option a	1 mark for	1
		correct	
	Both A and R are true but R is the correct explanation for A	answer	
	SECTION B		
19	(i)	½ mark for each correct	1+1=2
	SMTP – Simple Mail Transfer Protocol	expansion	
	IMAP – Internet Message Access Protocol		
	(ii)		
	Active hubs amplify the incoming electric signal, whereas passive hubs do not amplify the electric signal. (Any other valid difference may be considered)	1 mark for any one correct difference	
	OR		
	(i) A network protocol is an established set of rules that determine how data is transmitted between different devices in the same network.	1 mark for correct definition	
	(ii) Hub is an electronic device that connects several nodes to form a network and redirect the received information to all the nodes in a broadcast mode. Whereas Switch is an intelligent device that connects several nodes to form a network and redirect the received information only to the intended node(s). (Any other valid difference may be considered)	1 mark for any one correct difference	
20	<pre>def table (): n=int (input ("Enter number which table U need: ")) for i in range (1,11): print ("able of Enter no=",i*n) table ()</pre>	½ mark for each correction made	2

21		½ mark for	2
	SUBJECT={1:"Hindi",2:"Physics",3:"Chemistry",4:"CS",5:"MATH"}	correct	
		function	
	def countMy (SUBJECT):	header	
	for S in SUBJECT.values(): if len(S)>5:	½ mark for	
	print(S.upper())	correct loop	
	countMy()	½ mark for	
	Countiny()	correct if	
		statement	
		½ mark for	
		displaying	
		the output	
	OR		
		½ mark for	
	1 C1 I (CTDING)	correct	
	def lenLines (STRING):	function	
	t=() L=STRING.split()	header	
	for line in L:	½ mark for	
	length=len(line)	using split()	
	t=t+(length,)	½ mark for	
	return t	adding to	
		tuple	
		½ mark for	
		return	
		statement	
22	Note: Any other correct logic may be marked	1½ mark for	2
	(22, 44, 66)	each correct	
		digit	
		½ mark for	
		parenthesis	

23	(i) L1.insert(1,100)	1 mark for	1+1=2
	(ii) S1.isdigit()	each correct statement	
	pop() function removes the last value and returns the same. >>>L=[10,20,30,20] >>> L.pop () 20 The remove() method removes the first matching value from the list. >>>L.remove (20) [10, 30, 20]	1 mark for correct difference and 1 mark for suitable example	
24	SQL Command to add primary key: select * from student where fee IS NULL	2 mark for correct Command	2
	OR		
	DDL : CREATE, ALTER DROP DML: INSERT UPDATE DELETE	1 mark for each correct DDL & DML Categorized commands	
25	-22 # 756 # -9 # 230 #	½ mark for each correct number and ½ mark for each correct # symbol	2
	SECTION C		
26	['DelhiDelhi', 'JaipurJaipur', 'AgraAgra', 'SuratSurat', 'MumbaiMumbai', 'BhopalBhopal']	½ mark for each correct output	3

27	(a) Item Name White lotus Comfort Zo Wood Com	13/12/2001 one 22/02/2002	(c) Type Sum(Price) Double Bed 80000 Baby Cot 30500 Office Table 43000 Sofa 57500 Dining Table 11500	1 mark for each correct output.	1*3=3
28	line = file.rea word = line.s for w in word if len(w) print(w) file.close() def count H(): f = open ("palines =0 L=f. readlines for i in L: if i [0]== ' lines +:	STORY.TXT,'r') ad() split() d: <5:) ara.txt", "r") es () H': =1	OR	(½ Mark for opening the file) (½ Mark for reading line and/or splitting) (½ Mark for checking condition) (½ Mark for printing word)	3
29	print ("No. of lines are: ", lines) 29 (i) UPDATE EMP SET Salary=Salary + Salary*0.10 WHERE Allowance IS NOT NULL; (ii) SELECT Name, Salary + Allowance AS "Total Salary" FROM EMP; (iii) DELETE FROM EMP WHERE Salary>40000;			1 mark for each correct query	1*3=3

30 N=[12, 13, 34, 56,	21, 79, 98, 22, 35,	38]	1½ marks for	3
def PUSHEl(S,N):			each Push	
S.append(N)				
<pre>def POPEl(S):</pre>			and Pop	
if S!=[]:			operation	
return S.po	o ()		'	
else:				
return None				
ST=[]				
for k in N:				
if k%4==0:				
PUSHEl (ST, k)			
while True:				
if ST!=[]:				
print(POPEl(ST),end=" ")			
else:				
break				
	CECTIO	NT IN		

SECTION D

31	(i)		1 mark for	1*4=4
	3		each correct	
			output	
	(ii)			
	1			
	1			
	2			
	(iii)			
		Dname Pname		
		PARESH Lal singh		
		MANISH Arjun		
		AKASH Narender		
		KUMAR Mehul		
		PARESH Naveen		
		MANISH Amit		
	(iv)			
	Manish			
	Fiamism			

```
½ mark for
32
                                                                                        4
      import csv
                                                                        accepting
      def createcsv():
                                                                        data
            f=open("result.csv","w", newline="")
                                                                        correctly
            w=csv.writer(f)
            w.writerow([1,'Anil',40,34,90,""])
                                                                        ½ mark for
            w.writerow([2, 'Sohan', 78, 34, 90, ""])
                                                                        opening and
            w.writerow([3,'Kamal',40,45,9,""])
            f.close()
                                                                        closing file
                                                                        ½ mark for
      import csv
      def copycsv():
                                                                        writing
            f=open("result.csv","r")
                                                                        headings
            f1=open("final.csv","w",newline="")
            w1=csv.writer(f1)
                                                                        ½ mark for
            r=csv.reader(f)
                                                                        writing row
            for x in r:
                  x[5] = int(x[2]) + int(x[3]) + int(x[4])
                                                                        ½ mark for
                  w1.writerow(x)
      f.close()
                                                                        opening and
      f1.close()
                                                                        closing file
                                                                        ½ mark for
                                                                        reader object
                                                                        ½ mark for
                                                                        print heading
                                                                        ½ mark for
                                                                        printing data
                                     SECTION E
      (i) M/s Computer Solutions should install its server in finance block as it 1 Mark of
33
                                                                                     1*5=5
                                                                       each correct
         is having maximum number of computers.
                                                                       answer
      (ii) Any suitable layout
      (iii) Satellite Link.
      (iv) Switch.
      (v) LAN
```

2.4	(')	1	2.2.5
34	(i) rb+ Opens a file for both reading and writing in binary format. (+) the file	1 mark for	2+3=5
	pointer will be at the beginning of the file.	each correct	
		difference	
	wb+ Opens a file for both reading and writing in binary format. Overwrites	½ mark for	
	the existing file If the file exists. If the file does not exist, creates a new		
	file for reading or writing.	correctly	
	(ii) def Readfile():	opening and	
	s=open("Employee.dat", "rb+")	closing files	
	try:		
	while True:		
	r=pickle.load(s)		
	if r[2]>=20000 and r[2]<=30000:		
	print(r)		
	except:	½ mark for	
	print("end of file")	correct loop	
	OR	½ mark for	
		correct split	
		oon cocopiic	
		1 mark for	
		correctly	
	(i)	•	
		reading /	
	In pickle module, dump () method is used to convert (pickling) Python objects for writing data in a binary file	writing data	
	Tythor objects for writing data in a binary me	½ mark for	
	Whereas the load () function is used to read data from a binary	printing	
	file or file object.	data	
	(**)		
	(ii)		
	<pre>import pickle as p L=[]</pre>		
	with open('emp.dat','rb') as f:		
	L=p.load(f)		
	for r in L:		
	if r[2]>5000:		
	<pre>print("name=",r[0])</pre>		
	<pre>print("designation=",r[1])</pre>		
	<pre>print("salary=",r[2])</pre>		
	Note: Any other correct logic may be marked		
	Note: Any other correct logic may be marked		
			1

(i) A table can only have one primary key, but it can have multiple candidate key in a database. (any suitable example)	½ mark for correct definition	1+4=5
(ii) import mysql.connector mydb=mysql.connector.connect(host="localhost",user="root",passwd="admin",dat abase="SCHOOL") mycursor=mydb.cursor() while 1: ch=int(input("enter -1 to exit / any other no to insert record into student table")) if ch==-1: break eno=int(input("Enter Employee no")) ename=input("Enter Employee Name") edept=input("Enter dept name") sal=int(input("Enter salary")) mycursor.execute("insert into EMP values (""+str(eno)+"",""+ ename+"","" +edept + "",""+str(sal)+"")")	½ mark for correct example ½ mark for importing correct module	
mydb.commit() for x in mycursor: print(x)	correct connect()	
OR (i) Degree: The total number of attributes which in the relation is called the	½ mark for correctly accepting the input	
degree of the relation. Cardinality: Total number of rows present in the Table. (any suitable example) (ii)	1½ mark for correctly displaying data	
import mysql.connector mydb=mysql.connector.connect(host="localhost",user="root",passwd="admin",databas e="SCHOOL") mycursor=mydb.cursor() mycursor.execute("alter table emp add (bonus int(3))") mycursor.execute("desc emp") for x in mycursor: print(x) Note: Any other correct logic may be marked		